Effect Sizes of MORL Improvements vs Baseline Algorithms Small Effect 0.60 Evolutionary MOEA-D Medium Effect Large Effect 1.26 Evolutionary SPEA2 -0.47 Evolutionary NSGA-II -0.09 Single-Objective SAC -0.39 Single-Objective DDPG -1.04 Single-Objective PPO 0.49 PID + Trajectory Planning -0.25 0.75 1.25 0.00 0.50 1.00 1.50 Effect Size (Cohen's *d*)